AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1.   (Currently Amended):   An Internet Protocol mobility supporting method for supporting the roaming of a Mobile Node (MN) in a Mobile Internet Protocol Network from a home network (HN) towards a Visited Network (VN), said home network (HN) comprising a home agent (HA), ~~characterized in that~~wherein said Mobile Internet Protocol Network excluding said visited network (VN) comprises a Foreign Agent (FA) and that said method comprises the following steps:

a.   forwarding a destination address towards said Home Agent (HA) by said Mobile Node (MN) at roaming of said Mobile Node (MN) from said home network (HN) to said visited network (VN1);

b.   assigning said Foreign Agent (FA) to said Mobile Node (MN) by a Foreign Agent assigning entity (FAAE) at request of said Mobile node (MN);

c.   ~~Establishing~~ establishing a path between said Home Agent (HA) and said Foreign Agent by said Home Agent (HA); and

d.   ~~Establishing~~ establishing a path between said Foreign Agent (FA) and said Mobile Node (MN) by said Foreign Agent (FA) based on said destination address.

2. (Currently Amendedl): An Internet Protocol mobility supporting system for supporting the roaming of a Mobile Node (MN) in a mobile Internet protocol Network from a home network (HN) towards a Visited Network (VN), said home network (HN) comprising a Home Agent (HA), ~~characterized in that~~wherein said Mobile Internet Protocol Network excluding said Visited Network (VN) comprises a Foreign Agent (FA) and that said system, comprises the following parts:

a) destination address forwarding part (DAFP)-, located in said Mobile Node (MN) and adapted to forward, at roaming of said Mobile Node (MN) from said home network (HN) to said visited network (VN), a destination address towards said home agent (HA);

b) Foreign Agent Assigning Entity (FAAE), adapted to assign said Foreign Agent (FA) to said Mobile Node (MN) at request of said Mobile Node (MN);

c) Home Agent path establishing part (HAPEP), located in said Home Agent (HA) and adapted to establish a path between said home agent (HA) and said Foreign Agent (FA); and

d) Foreign Agent path establishing part (FAPEP), located in said Foreign Agent (FA) and adapted to establish a path between said Foreign Agent and said Mobile Node (MN) by said Foreign Agent (FA) based on said destination address.

3. (Currently Amended): The Internet Protocol mobility supporting system according to claim 2, ~~characterized in that~~wherein said destination address is an Internet Protocol

address of said Mobile Node (MN), said address being a temporary address, assigned by a

Dynamic Host Control Protocol server of said visited network (VN) and said destination address

identifying said path between said Foreign agent and said Mobile Node.

4. (Currently Amended): The Internet Protocol mobility supporting system

according to claim 2, ~~characterized in that~~wherein said destination address is the Internet

Protocol address of an Access Router (AR) at the edge of said visited network, said access router

(AR) being adapted to establish a path between said access router (AR) and said Mobile Node

(MN) based on forwarding information provided to said Access Router by said Mobile Node and

said destination address identifying said path between said Foreign agent and said Access Router.

5. (Currently Amended): A Mobile Node (MN) for use in a Internet Protocol

mobility supporting system for supporting the roaming of said Mobile Node (MN) in a Mobile

Internet Protocol Network from a Home Network (HN) towards a Visited Network (VN), said

Home Network (HN) comprising a Home Agent (HA), said Mobile Node (MN) being connected

to said mobile Home Network (HN), ~~characterized in that~~wherein said Mobile Node (MN)

comprises a Foreign Agent Assignment requesting part (FAARP), adapted to request, at

detection of entry of said Mobile Node in said Visited Network (VN), a Foreign Agent assigning

entity (FAAE) of said Home network (HN) to assign a Foreign Agent (FA) to said Mobile Node

(MN).

6. (Currently Amended): A Foreign Agent assigning entity (FAAE) for use in a

Internet Protocol mobility supporting system for supporting the roaming of a Mobile Node (MN)

in a Mobile Internet Protocol Network from a home network (HN) towards a Visited Network

(VN), said Home Network (HN) comprising a Home Agent (HA), said Mobile Node (MN) being

connected to said mobile Home Network (HN), said Foreign Agent assigning entity (FAAE)

comprising the following parts:

a. a Foreign Agent Assignment request reception part (FAARRP), adapted to

receive a request for service of a Foreign Agent (FA) of said Mobile Node (MN);

b. a Foreign Agent Assigning part (FAAP), coupled with an input to an output of

said Foreign Agent Assignment request reception part (FAARRP) and adapted to assign a

Foreign Agent to said Mobile Node (MN) at reception of said request for service of a foreign

agent (FA) of said Mobile Node (MN); and

c. a notification part (NP), coupled with an input to an output of said Foreign Agent

Assigning Part (FAAP), and adapted to notify said Foreign Agent (FA) of an assignment of said

Foreign Agent (FA) for providing Foreign Agent service to said Mobile Node (MN).

7. (Currently Amended): The Foreign Agent assigning entity (FAAE) according to

claim 6, characterized in thatwherein said Foreign Agent assigning entity (FAAE) further

comprises a Foreign Agent holding part (FAHP) adapted to hold a list comprising at least one

Foreign Agent (FA); and

that said Foreign Agent Assigning part (FAAP) is coupled to said Foreign Agent

Holding Part (FAHP) and is further adapted to select said Foreign Agent (FA) to be assigned

from said Foreign Agent Holding Part (FAHP).

8. (Currently Amended): The Foreign Agent assigning entity (FAAE) according to

claim 6, ~~characterized in that~~wherein said Foreign Agent assigning entity (FAAE) is further

adapted to assign a Foreign Agent (FA) provided via an Authorisation Authentication

Accounting-Server (AAAS).

9.   (Currently Amended):   A Home agent (HA) for use in a Internet Protocol

mobility supporting system for supporting the roaming of said Mobile Node (MN) in a

Mobile Internet Protocol Network from a Home Network (HN) towards a Visited

Network (VN), said Home Network (HN) comprising said Home Agent (HA), said Mobile

Node (MN) being connected to said mobile Home Network (HN), ~~characterized in that~~wherein

said Home Agent (HA) comprises a Foreign Agent Assigning Entity (FAAE) according any of

the claims 6 to 8 and that said Home Agent (HA) further comprises a Home Agent Path

Establishing Part (HAPEP), coupled with an output to an input of said Foreign Agent Assigning

Entity (FAAE) and adapted to establish a connection between said home agent (HA) and said

assigned Foreign Agent (FA).

10. (Currently Amended): An Authentication, Authorization and Accounting Server (AAS) for use in a Internet Protocol mobility supporting system for supporting the roaming of a Mobile Node (MN) in a Mobile Internet Protocol Network from a Home Network (HN) towards a Visited Network (VN), said Home Network (HN) comprising a Home Agent (HA), said Mobile Node (MN) being connected to said Home Network (HN), ~~characterized in that~~wherein said Home Agent (HA) comprises a Foreign Agent assigning entity (FAAE) according to any of the claims 6 to 8.

11. (Currently Amended): A Foreign Agent (FA) for use in a Internet Protocol mobility supporting system for supporting the roaming of a Mobile Node (MN) in a Mobile Internet Protocol Network from a Home Network (HN) towards a Visited Network (VN), said Home Network (HN) comprising a Home Agent (HA) and said Mobile Node (MN) being connected to said Home Network (HN), ~~characterized in that~~wherein said Foreign Agent (FA) is included in said mobile Internet protocol Network excluding said visited network (VN), and that said Foreign Agent comprises:

a. a Foreign Agent Reception Part (FARP), adapted to receive data from said Home Agent (HA); and

b. a Control Part (CP), coupled with an input to an output of said Foreign Agent Reception Part (FARP) and adapted to determine a destination address from said data sent by said home agent (HA);

c. a Foreign Agent Path Establishing Part (FAPEP), coupled with an input to an output of said Control Part (CP), and adapted to establish a path between said Foreign Agent (FA) and said Mobile Node (MN) based on said destination address.

12.   (Currently Amended):   The Foreign Agent (FA) according to claim 11, ~~characterized in that~~wherein said Foreign Agent Path Establishing Part (FAPEP) is adapted to establish a connection between said Foreign Agent (FA) and said Mobile Node (MN) where said destination address is a Internet protocol address assigned to said Mobile Node (MN).

13.   (Currently Amended):   The Foreign Agent (FA) according to claim 11, ~~characterized in that~~wherein said Foreign Agent connection establishing part (FACEP), is adapted to establish a connection between said Foreign Agent (FA) and an Access Router (AR) at the edge of said Visited Network (VN) where said destination address is a Internet Protocol address assigned to said Access Router (AR).

14. (Currently Amended): An Access Router for use in a Internet Protocol mobility supporting system for supporting the roaming of a Mobile Node (MN) in a Mobile Internet Protocol Network from a Home Network (HN) towards a Visited Network (VN), said Home Network (HN) comprising a Home Agent (HA), said Access Router (AR) being located at the edge of said visited network, ~~characterized in that~~wherein, said access router (AR) comprises an

Access Router Path Establishing Part (ARPEP) adapted to establish a path between said Access

Router (AR) and said Mobile Node (MN) based on forwarding information provided to said

Access Router by said Mobile Node.